

CLAIMS

What is claimed is:

- 5 1. A method of screening for a compound that modulates the activity of a chromatin modifying enzyme, the method comprising the steps of:
- (a) contacting a cell with the compound, wherein the cell comprises a fusion protein comprising a zinc finger protein (ZFP) and a functional chromatin modifying enzyme or fragment thereof and wherein the ZFP binds to a reporter gene; and
- 10 (b) determining the level of expression of the reporter gene.
2. The method of claim 1, wherein the modifying enzyme modifies a chromosomal protein.
- 15 3. The method of claim 1, wherein the reporter gene is an endogenous cellular gene.